

What is claimed is:

1. An e-brain comprising:

a knowledge map configured in a hierarchy form with
5 each node thereof being a knowledge symbol
having a knowledge attribute table for recording
one or more attributes each containing an
attribute name and an attribute value;

a knowledge instruction including a knowledge
10 operator and one or more parameters determined
by the attribute name and attribute value,
respectively; and

a knowledge interpreter corresponding to the attribute
name for interpreting the attribute value.

15 2. The e-brain of claim 1, wherein the knowledge
map is provided by a server.

20 3. The e-brain of claim 1, wherein the knowledge
map is derived from an algorithm.

4. The e-brain of claim 1, wherein the knowledge
map is derived from a genetic algorithm.

25 5. The e-brain of claim 1, wherein the knowledge

map is stored in a neural network.

6. The e-brain of claim 1, wherein the knowledge map is stored in a file.

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7. The e-brain of claim 1, wherein the knowledge map is stored in a memory.

8. The e-brain of claim 1, wherein the knowledge map is provided by accessing a hyperlink.

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9. The e-brain of claim 1, wherein the knowledge interpreter is implemented by a program.

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10. The e-brain of claim 1, wherein the knowledge interpreter is implemented by a single chip.

11. The e-brain of claim 1, wherein the plurality of knowledge symbols includes a carrier symbol.

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12. The e-brain of claim 11, wherein the knowledge instruction is executed for searching the knowledge map for a second carrier symbol in accordance with the first carrier symbol.

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13. The e-brain of claim 1, wherein the plurality of knowledge symbols includes a conceptual symbol.

14. The e-brain of claim 13, wherein the knowledge instruction is executed for searching the knowledge map for a carrier symbol in accordance with the conceptual symbol.

15. The e-brain of claim 1, wherein the plurality of knowledge symbols includes a carrier symbol vehicling a conceptual symbol for calculating a knowledge content of the carrier symbol or a second carrier symbol.

16. The e-brain of claim 1, wherein the attribute further includes a context.

17. The e-brain of claim 16, wherein the attribute value is operated under the context.

18. The e-brain of claim 17, wherein the operation of the attribute value is selected from the group composed of computation, reasoning, problem-solving, description and presentation.

19. The e-brain of claim 1, wherein the knowledge map includes one of the plurality of knowledge symbols derived

from a knowledge operation of another one or more knowledge symbols thereof.

20. A data structure comprising:

5 a knowledge map including a plurality of knowledge symbols configured in a hierarchy form with each node thereof corresponding to one of the plurality of knowledge symbols;

10 each of the plurality of knowledge symbols having a knowledge attribute table for recording one or more attributes each representing one set of signified description thereof; and

15 each of the plurality of nodes in the hierarchy form having a unique addressing expression for the corresponding knowledge symbol thereto.

21. The data structure of claim 20, wherein each of the plurality of knowledge symbols includes a string, a numeral, a graphic, an image, a visual information, an animation or any

20 representative symbol referring to other object or intention on a computer or internet, or a combination thereof.

22. The data structure of claim 20, wherein each of the plurality of attributes has an attribute name and an

25 attribute value.

23. The data structure of claim 20, wherein the plurality of knowledge symbols includes at least one knowledge symbol appears on two or more of the plurality of nodes in the hierarchy form.

24. The data structure of claim 20, wherein the plurality of knowledge symbols includes at least one knowledge symbol being a carrier symbol.

25. The data structure of claim 24, wherein the carrier symbol vehicles one or more knowledge symbols thereon.

26. The data structure of claim 24, wherein the carrier symbol serves as a guiding unit for guiding a switching between the plurality of knowledge symbols on the knowledge map.

27. The data structure of claim 20, wherein the plurality of knowledge symbols includes at least one knowledge symbol being a conceptual symbol.

28. The data structure of claim 27, wherein the conceptual symbol includes at least one signifier.

29. The data structure of claim 20, wherein the knowledge map has a title.

30. The data structure of claim 29, wherein the title
5 is a root name of the hierarchy form.

31. The data structure of claim 20, wherein each of the plurality of knowledge symbols has a syntagmatic chain with an up-knowledge symbol thereof.

32. The data structure of claim 31, wherein the syntagmatic chain is inclusion, inheritance, amount or location.

33. The data structure of claim 32, wherein the
15 amount or location is depicted in the knowledge attribute table.

34. The data structure of claim 22, wherein one of the plurality of knowledge symbols has its attribute value with a signified description representing a combinational relationship
20 among two or more of the plurality of knowledge symbols.

35. The data structure of claim 34, wherein the combinational relationship has a specific form representing a knowledge type.

36. The data structure of claim 35, wherein the knowledge type is a combination of words and sentences, an equation or a diagram.

5 37. The data structure of claim 20, wherein each of the plurality of attributes has a context.

10 38. The data structure of claim 20, wherein each of the plurality of attributes has a corresponding knowledge processing unit.

15 39. The data structure of claim 20, wherein each of the plurality of knowledge symbols has a unique addressing expression corresponding thereto.

 40. The data structure of claim 39, wherein the unique addressing expression forms a tree structure.

20 41. A knowledge processing method comprising the steps of:

 preparing a knowledge map configured in a hierarchy form with each node thereof being a knowledge symbol having a knowledge attribute table for recording one or more attributes each containing an attribute name and an attribute value;

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interpreting a knowledge instruction including a
knowledge operator and one or more parameters
determined by the attribute name and attribute
value, respectively; and

5 operating the attribute value under a context.

42. The method of claim 41, further comprising
searching the knowledge map for a first carrier symbol, a second
carrier symbol or a conceptual symbol in accordance with the
10 first carrier symbol.

43. The method of claim 41, further comprising
searching the knowledge map for a first conceptual symbol, a
second conceptual symbol or a carrier symbol in accordance with
15 the first conceptual symbol.

44. The method of claim 41, further comprising
calculating a knowledge content of a carrier symbol in
accordance with a conceptual symbol.

20 45. The method of claim 41, wherein the step of
operating the attribute value includes a computation, a
reasoning, a problem-solving, a description or a presentation.

25 46. The method of claim 41, wherein the step of

operating the attribute value includes generating a new knowledge symbol from one or more of the plurality of knowledge symbols.

5 47. The method of claim 46, further comprising arranging the new knowledge symbol on the knowledge map.

 48. The method of claim 41, further comprising modifying or canceling one or more of the plurality of knowledge
10 symbols on the knowledge map.

 49. A knowledge instruction comprising:
 a knowledge operator; and
 one or more parameters following behind the
15 knowledge operator for being operated by the
 knowledge operator.

 50. The knowledge instruction of claim 49, wherein the knowledge operator corresponds to a knowledge type.
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 51. The knowledge instruction of claim 50, wherein the one or more parameters are attribute values of a knowledge symbol having an attribute name corresponding to the knowledge type.
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52. A knowledge processor comprising:
an input for receiving a knowledge instruction;
one or more knowledge interpreters connected to the
input with each knowledge interpreter thereof
interpreting an attribute value for a knowledge
symbol of a knowledge type; and
an output connected to the one or more knowledge
interpreters for outputting a knowledge operation
result.

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